

# HAKAN OKAY

## SOFTWARE DEVELOPER

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### 👤 SUMMARY

- 💻 I'm a versatile software developer with three years of experience developing web applications and services, creating efficient data pipelines and training/deploying machine learning models for different purposes.
- ♥ I'm fluent in Python, SQL, and English. I've also written a good amount of TypeScript, JavaScript, HTML, and CSS. I have some exposure to Go and Java. I learn quickly, care about detail and I like finishing tasks and focusing on the results.
- 🏠 I live in Canada. I lived and worked in Istanbul, Izmir, and Canakkale from 2019 to 2022, then moved to Ottawa to study and work. I'm open to remote work and travel. I can relocate depending on the opportunity.

### 🏢 EXPERIENCE

- Software Developer @ Freelance** ⚡ June 2022 - Present
- Designed and developed the code for **Musme Library** ⚡, a subscription-based music library for content creators. I provided code-reviews and mentorship for other four contributors.
  - Developed a web application using Next.js, FastAPI, MongoDB and Docker to manage sale records and explore different relevant metrics for data-driven business decisions.
  - Trained accurate machine learning models in Python and served them over the cloud using FastAPI, Docker and Google Cloud Platform and reviewed machine learning methodologies applied by a team of three.
  - Migrated an old CRM exploration application written in PHP to Python, HTML/CSS/Typescript and updated the scripts responsible for data retrieval and processing.
- Backend Engineer @ Datablast** ⚡ February 2023
- Used FastAPI to create endpoints for a web application generating static HTML reports with various metrics by using data warehoused in BigQuery. I also used Pytest to ensure the expected functionality.
  - Built a SQL code generation engine using Jinja and Python to automate data model generation for multiple mobile games having similar data characteristics.
  - Contributed to the code of **blast** ⚡, a command-line tool for validating and running data transformations on SQL, similar to dbt but with the ability to run Python scripts in the same pipeline.
  - Created **documentation** ⚡ for Blast Data Platform. I used Markdown for the content, Docsify for powering the website, Jekyll, and GitHub Actions for building and deployment.
- Data Scientist/Engineer @ Datablast** ⚡ March 2022 🔄 Role Change
- Built ETL/ELT pipelines to process ~1 billion rows of data daily, from **various backends** ⚡, primarily Firebase. I used BigQuery, Snowflake and AWS Athena for data warehousing and Airflow for pipeline management.
  - Implemented custom Airflow operators to **notify/alert** ⚡ stakeholders about warehousing and querying costs. I used BigQuery API, Python and Slack/Discord webhooks.
  - Performed data analysis and A/B tests to increase user retention, improve KPIs, attract new users and increase advertisement and in-app purchase revenues. I also developed various machine learning models.

### ⚙️ SKILLS

**Programming Languages:** Python, SQL, Java, TypeScript, JavaScript, Go  
**Libraries & Frameworks:** React, Next.js, Tailwind  
**Tools & Platforms:** Linux, Git, Docker, Airflow, Google Cloud

### 🎓 EDUCATION

<b>Algonquin College of Applied Arts and Technology</b>	Ottawa, ON
Diploma in Computer Programming	September 2022 - December 2023
<b>Miuul &amp; Data Science Academy</b>	Uppsala, Sweden (Remote)
Certificate in Data Science and Machine Learning	December 2021 - March 2022
<b>Canakkale Onsekiz Mart University</b>	Canakkale, Turkey
Master's Degree in Engineering	February 2021 - February 2024
<b>Akdeniz University</b>	Antalya, Turkey
Bachelor's Degree in Engineering	September 2014 - September 2019